BLUEMARK ACADEMY

Kanban Fundamentals

Duration: 2 Days · **Training format:** Virtual Classroom / Online

Description

The Kanban Method is an approach to incremental, evolutionary process and systems change for organizations. Kanban methods have increased in popularity. Going beyond the manufacturing origins, more and more teams in information technology are adopting the practices. Kanban methods go beyond the visual aspects of the Kanban board. In addition to visualizing the work in progress, Kanban provides techniques to manage the flow of work and continuously improve on that flow. You learn how to focus on the work that is needed and reduce the time spent on the wrong work. Other advantages include flexibility of process, increased productivity, and improved efficiency. The concepts are easy to understand yet difficult to master.

This Kanban training provides guidance on Kanban implementation and bootstrapping a Kanban system in your own organization. You will learn how Kanban is a cultural change initiative and what that shift means, how Kanban can be applied to your software development workflow, and how it differs from other development methods.

Delegates will learn how to

- Optimize the flow of work by a managing work in progress (WIP) and removing bottlenecks
- Identify and eliminate sources of waste in the development lifecycle
- Combine Kanban with Scrum to improve overall team performance and maximize benefits
- Scale agile by using Kanban at the program and portfolio levels

Outline

Introduction

- Course summary
- Topics covered

The Case for Change

- What is Lean?
- What is Agile?
- What is Kanban?

- Why Kanban?
- How Kanban differs from other methodologies
- How Kanban differs from Scrum
- Benefits of Kanban
- How Kanban differs from other Agile methodologies

Kanban Overview and Concepts

- Kanban's Five Core Properties
- Kanban Emergent Behaviors
- Kanban Team
- Roles
- General High-Level Concepts
- Kanban Origins And Evolution
- The Kanban Concepts, Principles, and Terminology
- Common Misunderstandings and Pitfalls of Kanban
- Kanban Core Principles

Implementing Kanban

- Work Item Types
- Card Walls
- Workflow
- Queues and Buffers
- Cadences
- Work-in-Progress
- Bottlenecks
- Capacity Allocation
- Class of Service
- Service Level Agreements
- Issues and Blocked Items
- Visualization of Work
- Up a Card Wall
- Setting Work-in-Process Limits
- Limiting Work-in-Process
- Analyzing the Flow of Work
- Learn to Build Visualization Methods Like a Kanban Board
- Implementation Approaches
- How to Use Work Item Types
- Setting Input and Output Limits
- Service Levels Agreements

- Sources of Variability

Metrics and Reporting

- Metrics Overview
- Tracking Work-in-Process
- Cumulative Flow Diagram
- Lead Time
- Trends
- Throughput and Production Rates
- Flow Efficiency
- Failure Load/Cost of Poor Quality
- Kanban Metrics and Management Reporting
- Metrics and Tracking Methods
- Optimize the Flow of Work

Scaling Kanban

- Scaling Kanban for projects
- Work Item Levels
- User Stories
- Minimal Marketable Release
- Two-Tiered Card Walls
- Swim Lanes
- Class of Service
- Systems Integration
- Managing Shared Resources
- Service Oriented Architecture
- Operations Review
- Understand Considerations for Scaling Kanban
- How Kanban is Used by Software Development Teams
- Using the Minimum Marketable Release to Break Work Down
- How to Conduct Operations Reviews

Improvements

- Three Types of Improvement Opportunities
- Warning Signs
- Bottlenecks
- Economic Model for Lean
- Sources of Variability
- Issue Management and Escalation Policies

- Optimizing Your Kanban System
- Practices to Improve Kanban Team Performance

Kanban Change Initiative

- Cultural Change Components of Kanban
- Goals Behind the Kanban Approach to Change
- Kaizen Culture
- Cultural Change
- Kanban Transition
- Kotter's Model
- Continuous Improvement Culture
- Learn the Role of Continuous Improvement
- Experiments and Analysis to Improve Team Performance

Summary

- Key Takeaways
- Kanban Objectives Board
- Survey Information

Exercises

- Review Kanban Emergent Behaviors
- Building a Kanban Board
- Documenting a work Flow
- Change a Workflow into a Kanban System
- Kanban Simulation

Prerequisites

There is no prerequisite